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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

01/23/2004

Koppel & Jacobs Suite 107 555 Street Charles Drive Thousand Oaks, CA 91360 EXAMINER

RAYMOND, EDWARD

ART UNIT

PAPER NUMBER

2857

DATE MAILED: 01/23/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/762,562	02/13/2002	Michael T. Parker	381-23-014	6817

TITLE OF INVENTION: ELECTRIC ARC MONITORING SYSTEMS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	04/23/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Complete and send this form, together with applicable fee(s), to: Mail

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INSTRUCTIONS: This for appropriate. All further corn indicated unless corrected b maintenance fee notification	respondence including the le below or directed otherwise	smitting the ISSU Patent, advance ordin Block 1, by (a)	E FEE and PUBLIC ders and notification pspecifying a new o	CATION FEE (if rec of maintenance fees orrespondence addre	uired). Blocks 1 through 4 s will be mailed to the current ss; and/or (b) indicating a sep	should be completed wher t correspondence address a arate "FEE ADDRESS" fo
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Koppel & Jacobs Suite 107 555 Street Charles I Thousand Oaks, CA	Drive			C	ertificate of Mailing or Tran this Fee(s) Transmittal is beirt to with sufficient postage for fit ail Stop ISSUE FEE address SPTO, on the date indicated be	smission
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nonprovisional	NO	\$1330		\$0	\$1330	04/23/2004
EXAM	INER	ART UN	T C	LASS-SUBCLASS		•
RAYMOND	, EDWARD	2857		702-076000	_	
Address form PTO/SB/12 "Fee Address" indication PTO/SB/47; Rev 03-02 on Number is required. 3. ASSIGNEE NAME AND PLEASE NOTE: Unless.	n (or "Fee Address" Indicate r more recent) attached. Use RESIDENCE DATA TO B an assignee is identified beld to the USPTO or is being s	ion form of a Customer E PRINTED ON T ow, no assignee da	agents OR, altern firm (having as a agent) and the matterneys or agen will be printed. HE PATENT (print ata will appear on the parate cover. Comple	e patent. Inclusion of	e of a single d attorney or 2 stered patent ed, no name 3 assignee data is only approprior a substitute for filing an assign	iate when an assignment ha
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09/762,562	02/13/2002	Michael T. Parker	381-23-014	6817
7:	590 01/23/2004		EXAM	INER
Koppel & Jacobs			RAYMOND	, EDWARD
Suite 107			APTIBUT	DARED MINORE
555 Street Charles			ART UNIT	PAPER NUMBER
Thousand Oaks, C.	A 91360		2857	
			DATE MAILED: 01/23/2004	

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)				
•	09/762,562	PARKER ET AL.				
` Notice of Allowability	Examiner	Art Unit				
	Edward Raymond	2857	Mui			
	Edward Raymond	2007	13000			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.						
1. This communication is responsive to <u>IDS filed 9/26/03</u> .						
2. The allowed claim(s) is/are <u>1-65</u> .						
3. The drawings filed on 13 February 2002 are accepted by the						
4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the:	der 35 U.S.C. § 119(a)-(d) or (f).					
 Certified copies of the priority documents have 	been received.					
Certified copies of the priority documents have	been received in Application No	·				
Copies of the certified copies of the priority doc	cuments have been received in this r	national stage applicatio	n from the			
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
reference was included in the first sentence of the specifica	5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.					
(a) ☐ The translation of the foreign language provisional a	• •	.6				
6. Acknowledgment is made of a claim for domestic priority ur in the first sentence of the specification or in an Application		nce a specific reference	was included			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of t						
7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.						
8. ☑ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No						
(b) ☐ including changes required by the proposed drawing correction filed, which has been approved by the Examiner.						
(c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. <u>13</u> .						
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).						
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)						
1⊠ Notice of References Cited (PTO-892)	5⊡ Notice of Informal Pa	tent Application (PTO-1	52)			
2☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6⊠ Interview Summary (I	PTO-413), Paper No. <u>13</u>	. "			
3⊠ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No. 10, 11, 12), 7⊠ Examiner's Amendme					
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Statemer 9⊡ Other	8⊠ Examiner's Statement of Reasons for Allowance 9□ Other .				

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed January 21, 2003 fails to comply with 37 CFR 1.98(a)(3) because it does not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each patent listed that is not in the English language. It has been placed in the application file, but the information referred to therein has not been considered.

Drawings

2. The drawings are objected to because Figures 2, 4-6, and 8 should include labeled boxes that describe the component, in addition to the reference number. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Election/Restrictions

- 3. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-65, drawn to a method of monitoring an electric arc, classified in class 702, subclass 76.
 - II. Claims 66-83, drawn to a method for monitoring occurrence of sparks aboard aircraft, classified in class 702, subclass 58.

The inventions are distinct, each from the other because of the following reasons:

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4. Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case a method of monitoring an electric arc can be used at a gas station for automobiles.

- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 6. During a telephone conversation with Jaye Heybl on December 22, 2003 a provisional election was made without traverse to prosecute the invention of a method of monitoring an electric arc, claims 1-65. Affirmation of this election must be made by applicant in replying to this Office action. Claims 66-83 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.
- 7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

EXAMINER'S AMENDMENT

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- 8. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 9. Authorization for this examiner's amendment was given in a telephone interview with Jaye Heybl on December 22, 2003.
- The application has been amended as follows:Claims 66-83 are carcelled.

Terminal Disclaimer

11. The terminal disclaimer filed on December 23, 2003 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Patent Number 6,362,629 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

12. The following is an examiner's statement of reasons for allowance: Scott et al. teach a arc fault detection for aircraft. Roberts teaches a corona discharge detection system for detecting the presence of any corona discharge in an electrical system. The prior art of record does not teach selecting a fractal subset of said arc signature characterized by relatively long travel along said monitored circuits and low cross induction among neighboring circuits and monitoring said electric arc from said fractal subset of said arc signature.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Roberts teaches a corona discharge detection system for detecting the presence of any corona discharge in an electrical system. Carter teaches corona discharge detecting apparatus including gatable amplifiers controlled by flip-flop means. Blades teaches a method and apparatus for detecting arcing in alternating-current power systems by monitoring high-frequency noise. Blades teaches a method and apparatus for detecting arcing in ac power systems by monitoring high frequency noise. Boaz teaches methods and an apparatus for detecting and locating corona discharge in high-voltage, fluid filled electrical inductive apparatus. Scott et al. teach a arc fault detection for aircraft. Dollar II teaches a vehicle electrical system arc detection apparatus and method. Golden, Jr. et al. teach a method for on-line monitoring and control of the performance of an electric arc furnace.

Contact Information

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Raymond whose telephone number is 703-308-6235 until January 26, 2004 and 571-272-2221 thereafter. The examiner can normally be reached on Monday through alternating Friday between 8:00 AM and 5:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc Hoff can be reached on 703-308-1677. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-4447 for regular communications and 703-308-0956 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1782.

January 21, 2004 Edward Raymond Patent Examiner Art Unit 2857

MARC S. HQF SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800